

Quantification of underwater CO₂ gas leaks using acoustics

B. J. P. Bergès*

P. R. White

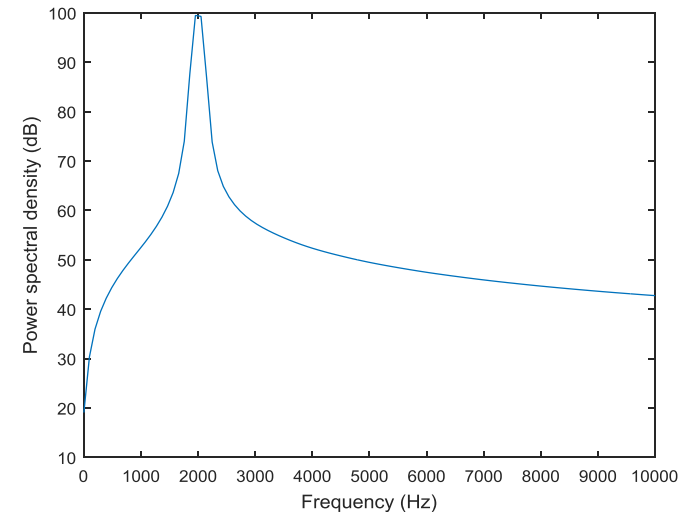
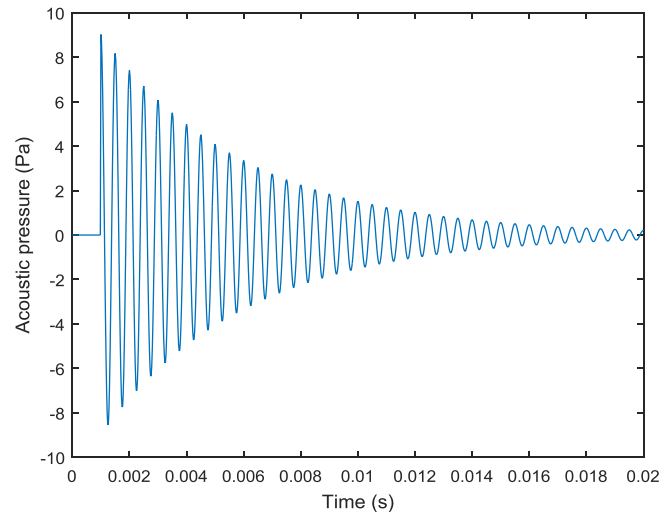
T. G. Leighton

Institute of Sound and Vibration Research (ISVR)

* bjp.berges@soton.ac.uk

Passive acoustics

- Bubble sizes can be inferred from the frequency content of their sound emissions
- For large leaks, the passive acoustic emissions of single bubbles overlap and an inverse approach is needed
- Passive acoustics provides an effective way to quantify leaks over long periods of time



Active acoustics

